## Index of Claims



Application/Control No.

10/588,308

TAKADA ET AL.

Examiner

Art Unit

Reexamination

Applicant(s)/Patent under

leszek b. kiliman

ı

1794

| √ | Rejected |
|---|----------|
| = | Allowed  |

(Through numeral) Cancelled

Restricted

Non-Elected N

Interference

Appeal Α 0 Objected

|                   |  |               | <u> </u>  |  |                |  | J              |  | L          | <u> </u>        |
|-------------------|--|---------------|-----------|--|----------------|--|----------------|--|------------|-----------------|
|                   |  | 1             |           |  |                | _  |                |  |            |                 |
| Cla               | aim  | ļ             |           |  | -1             | Dat  | te             |  |            |                 |
| Final             | Original   | 0/            |           |  |                |  |                |  |            |                 |
|                   | 1  | 5             | -         | $\vdash$   | +              | ╁  | ╁              | ╁  | ╁          | -               |
|                   | 2  | Ť             | -         | ╁  | ╁              | ╁  | ╁              | ╁  | ╁          | ╁               |
|                   | 3  | H             | ├         | ╁  | +              | ╁  | ╁              | ╁  | +          | +-              |
|                   | 4  | H             | $\vdash$  |  | 十一             | +-   | ╅              | ╅╌   | ✝          | ╁               |
|                   | 1<br>2<br>3<br>4<br>5  | Ħ             | $\vdash$  | <del>                                     </del> | $\vdash$       | $t^-$  | 1              | +-   | †          | T               |
|                   | 6  |               |           | 1-   | ╅              | 1-   | 1              | †  | $\vdash$   | T               |
|                   | 6<br>7   | $\top$        |           | $\vdash$   | ╁┈             | T  | 1              | T  | 1          | t               |
|                   | 8  |               |           |  | 1              | 1  | <b>†</b> –     |  | T          | T               |
|                   | 9  |               |           |  |                |  |                |  | ⇈          |                 |
|                   | 10   | П             |           |  |                |  | П              | П  | Т          |                 |
|                   | 11   | Ш             |           |  |                |  | 匚              |  | 匚          |                 |
|                   | 12   | Ш             |           |  | $\Box$         |  |                | Ĺ  | L          |                 |
|                   | 8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | Ш             |           |  |                |  |                |  | <u> </u>   |                 |
|                   | 14   | Ш             |           | Ĺ  | L              | 1_   | $\perp$        | ┕  | $\perp$    | <u> </u>        |
|                   | 15   | Ш             |           |  | L              | ļ  | L              | _  | <u> </u>   | <u> </u>        |
|                   | 16   | Ш             |           | _  | <u> </u>       | <u> </u>   | _              | <u> </u>   |            |                 |
|                   | 17   | Ш             |           | <u> </u>   | ┡              | ┡  | ļ              | ــــــــــــــــــــــــــــــــــــــ           | _          |                 |
|                   | 18   | Ш             |           | ļ  | <del> </del> _ | <u> </u>   | <u> </u>       | <del> </del> _                                   | <u> </u>   | ╙               |
|                   | 19   | Ш             |           | <u> </u>   | ├              |  | <u> </u>       | <u> </u>   | ₩          | _               |
|                   | 20   |               | _         | ┡  | ļ              | <u> </u>   | <u> </u>       | <u> </u>   | <u> </u>   |                 |
|                   | 20<br>21<br>22   | Н             |           |  | ⊢              | -  | -              | ├  | -          | _               |
|                   | 22   | Н             |           |  | ┢              | ├  | ├              | -  | ├          | ⊢               |
|                   | 24   | W             |           |  | $\vdash$       | ┝  | -              | -  | -          | -               |
|                   | 23<br>24<br>25   | Y             | _         | _  |                | <u> </u>   | ├              |  | ╫          | -               |
|                   | 26   | Н             |           | _  |                | 1  | _              |  | -          | -               |
|                   | 26<br>27   |               |           |  |                | t  |                | <u> </u>   |            | 1               |
|                   | 28   |               |           |  |                | Г  |                |  |            |                 |
|                   | 28<br>29<br>30   |               | Ì         |  |                |  |                |  |            |                 |
|                   | 30   |               |           |  |                |  |                |  |            |                 |
|                   | 31<br>32<br>33   | $\Box$        |           | L_   | <u>L</u>       |  | L.             |  |            |                 |
|                   | 32   | $\dashv$      |           |  | <u> </u>       | _  | <u> </u>       | _  |            | Ш               |
|                   | 33   |               |           |  | _              | <u> </u>   | <u> </u>       | _  | <u> </u>   | Ш               |
| $\longrightarrow$ | 34<br>35   | $\vdash$      | _         | <u> </u>   | <u> </u>       | _  | <b> </b>       | <u> </u>   | $\vdash$   | Щ               |
|                   | 36   | $\vdash$      | -         | _  |                | <del> </del>                                     | -              | $\vdash$   |            |                 |
|                   | 37   | $\dashv$      | -         |  | ⊢              | <del> </del>                                     | <del> </del>   | -  | $\vdash$   | Н               |
|                   | 38   | $\dashv$      | -         | -  | <del> </del>   | <del>                                     </del> | <del>  -</del> | <del>                                     </del> | $\vdash$   | $\vdash \vdash$ |
|                   | 39   | -             | $\exists$ | -  |                | <del>                                     </del> | ┢              | $\vdash$   | $\vdash$   | Н               |
|                   | 40   | $\vdash$      |           | -  | -              | $\vdash$   | $\vdash$       | ┢  |            | H               |
|                   | 41   |               |           | _  | Т              |  | Ι"             | $\vdash$   | Г          | Н               |
|                   | 42   |               |           |  |                |  | "              |  |            | П               |
|                   | 43   |               |           |  |                |  |                |  |            |                 |
|                   | 44   | $\overline{}$ |           |  |                |  |                |  |            |                 |
| ]                 | 45   |               |           |  |                |  |                |  |            |                 |
|                   | 46   |               | ]         |  | L              | $oxedsymbol{oxed}$                               | L              |  |            |                 |
|                   | 47   | _             |           |  | L.             | <u> </u>   | L              |  |            | Ш               |
|                   | 48   | _             | 4         |  | L.,            | <u> </u>   | <u> </u>       | L  | lacksquare | Щ               |
|                   | 49   | _             |           | _  | -              | <u> </u>   | H              | L_   |            | $\sqcup$        |
|                   | 50   | - 1           | ı         | .  | 1              | 1 :  | l i            |  |            | ı               |

| Claim    | Т            |          |               |          | Dat        | _            |          |          |               | 1        | CI    | im       | Г            |         |   |   | Dat      |              |   |   |   | ז             |
|----------|--------------|----------|---------------|----------|------------|--------------|----------|----------|---------------|----------|-------|----------|--------------|---------|---|---|----------|--------------|---|---|---|---------------|
| JIGIIII  | <del> </del> | 1        | Т             | 1        | Dat        | <u> </u>     | Т-       | т        | $\overline{}$ | 1        | C16   | im       | <del> </del> | _       | Π | Г | Dat<br>T | <del>-</del> | т | т | Γ | $\frac{1}{2}$ |
| Original | 0/00         | 3        |               |          |            |              |          |          |               |          | Final | Original |              |         |   |   |          |              |   |   |   |               |
| 1        | •            |          |               |          |            |              |          |          |               | ]        |       | 51       |              |         |   |   |          |              |   |   |   | 1             |
| 2        | П            |          |               |          |            |              |          |          |               |          |       | 52       |              |         |   |   |          |              |   |   |   | 1             |
| 3        | П            |          |               | L        |            |              |          |          |               |          |       | 53       |              |         |   |   |          |              |   |   |   | ]             |
| 4        | Ш            |          | <u> </u>      |          |            |              |          | L        |               | ļ        |       | 54       |              |         |   |   |          |              |   |   |   | ]             |
| 5        | Ц            |          |               |          |            |              |          |          |               | ]        |       | 55       |              |         |   |   |          |              |   |   |   | ]             |
| 6<br>7   | Ш            | L        | L             | <u> </u> | L          | L            |          | _        |               | ]        |       | 56       |              |         |   |   |          |              |   |   |   | ]             |
|          | Ш            |          |               |          |            |              |          |          | L             |          |       | 57       |              |         |   |   |          |              |   |   |   | ]             |
| 8        | Ш            |          |               |          |            |              |          |          |               |          |       | 58       |              |         |   |   |          |              |   |   |   | ]             |
| 9        |              |          |               |          |            |              |          |          |               |          |       | 59       |              |         |   |   |          |              |   |   |   | ]             |
| 10       | П            |          |               |          |            |              |          | L        |               |          |       | 60       |              |         |   |   |          |              |   |   |   | ]             |
| 11       | Ш            |          |               |          |            |              |          |          |               |          |       | 61       |              |         |   |   |          |              | П |   |   | 1             |
| 12       | Ш            |          |               | _        |            |              |          | L        |               |          |       | 62       |              |         |   |   |          |              |   |   |   | ]             |
| 13       | Ш            |          |               |          |            |              |          |          |               |          |       | 63       |              |         |   |   |          |              |   |   |   | ]             |
| 14       | L            |          |               |          |            |              |          |          |               |          |       | 64       |              |         |   |   |          |              |   |   |   | 1             |
| 15       | Ц            | _        | L             |          |            | L            |          |          |               | ]        |       | 65       |              |         |   |   |          |              |   |   |   | ]             |
| 16       | Ш            | L        | <u> </u>      |          |            |              |          |          |               |          |       | 66       |              |         |   |   |          |              |   |   |   | 1             |
| 17       | Ш            |          | L_            |          | <u> </u>   |              |          |          |               |          |       | 67       |              |         |   |   |          |              |   |   |   | ]             |
| 18       | П            |          | L             | L        |            | L.           |          | L        |               |          |       | 68       |              |         |   |   |          |              |   |   |   |               |
| 19       | Ц            |          |               | L        | lacksquare |              | L        |          |               |          |       | 69       |              |         |   |   |          |              |   |   |   | 1             |
| 20       | Ц            | <u> </u> |               |          |            |              |          |          |               |          |       | 70       |              |         |   |   |          |              |   |   |   | ],            |
| 21       | Ц            |          |               |          |            |              |          |          |               |          |       | 71       |              |         |   |   |          |              |   |   |   | ľ             |
| 22       | Ц            |          | L             |          | L          |              |          |          | <u></u>       |          |       | 72       |              |         |   |   |          |              |   |   |   |               |
| 23       | Ц            | L        |               | _        |            |              |          | L        | <u></u>       |          |       | 73       |              |         |   |   |          |              |   |   |   |               |
| 24       | V            |          |               |          |            | L            |          | L        |               |          |       | 74       |              |         |   |   |          |              |   |   |   |               |
| 25       |              | <u> </u> |               |          |            | L            |          |          |               |          |       | 75       |              |         |   |   |          |              |   |   |   | ļ             |
| 26       |              |          | _             |          |            |              | <u> </u> |          | L             |          |       | 76       |              |         |   |   |          |              |   |   |   |               |
| 27       |              | L.,      | <u> </u>      |          |            |              |          |          | L             |          |       | 77       |              |         |   |   |          | Ĺ            |   |   |   |               |
| 28       | L            | <u> </u> |               |          |            | L            |          |          |               |          |       | 78       |              |         |   |   |          |              |   |   |   |               |
| 29       | L            |          | L             | L        |            |              |          |          |               |          |       | 79       |              |         |   |   |          |              |   |   |   |               |
| 30       |              |          | L             |          |            | L            |          |          |               |          |       | 80       |              |         |   |   |          |              |   |   |   |               |
| 31       |              |          | <u> </u>      | L        |            |              |          |          |               |          |       | 81       |              |         |   |   |          |              |   |   |   |               |
| 32       |              |          |               | _        |            | <u> </u>     |          |          |               |          |       | 82       |              |         |   |   |          |              |   |   |   |               |
| 33       |              |          | <u> </u>      |          |            |              |          |          |               |          |       | 83       |              |         |   |   |          |              |   |   |   |               |
| 34       |              |          |               | _        |            | <u> </u>     |          |          |               |          |       | 84       |              |         |   |   |          |              |   |   |   |               |
| 35       |              |          |               |          |            | Ŀ            |          | _        | L             |          |       | 85       |              |         |   |   |          |              |   |   |   |               |
| 36       |              |          |               | _        |            | L            |          |          |               |          |       | 86       |              | _       |   |   |          |              |   |   |   | j             |
| 37       |              |          | L             | _        |            |              |          |          |               |          |       | 87       |              |         |   |   |          |              |   |   |   | ĺ             |
| 38       | _            |          | L             |          | _          | L_           |          |          | L             |          |       | 88       |              | $\Box$  |   |   |          |              |   |   |   |               |
| 39       |              |          | Ĺ.,           |          | L          |              |          |          |               |          |       | 89       |              |         |   |   |          | i            |   |   |   |               |
| 40       |              |          |               | _        |            | L.,          |          |          |               |          |       | 90       |              |         |   |   |          |              |   |   |   |               |
| 41       |              |          |               | <u> </u> |            |              |          |          |               | l        |       | 91       |              |         |   | • |          |              |   |   |   |               |
| 42       |              |          |               |          |            |              |          | <u> </u> |               |          |       | 92       | _            |         |   |   |          |              |   |   |   |               |
| 43       |              |          |               |          |            |              |          | <u> </u> | L             |          |       | 93       |              |         |   |   |          |              |   |   |   |               |
| 44       | ·            |          |               | L_       | L_         | L            |          |          |               |          | ]     | 94       |              |         |   |   |          |              |   |   |   | ı             |
| 45       | Щ            |          |               |          |            | L            |          |          | L             |          |       | 95       | _            |         |   |   |          |              |   |   |   |               |
| 46       |              | Щ        | Щ             | <u> </u> |            | $oxed{oxed}$ |          | L        |               |          |       | 96       |              | $\perp$ |   |   |          |              |   |   |   | l             |
| 47       | _            |          | Ш             | L.       | <u> </u>   |              |          | Ш        |               | Ļ        |       | 97       | $\perp$      | _       | _ |   |          |              |   |   |   |               |
| 48       | Щ            | Щ        | Щ             |          | $\Box$     |              |          |          | lacksquare    |          |       | 98       | _            | _       | _ |   |          |              |   |   |   | ı             |
| 49       | $\Box$       |          | $\sqsubseteq$ |          | Щ.         |              |          | <u> </u> | L_            | <u> </u> |       | 99       | $\perp$      | _       |   |   |          |              |   |   |   | l             |
| 50       |              |          |               |          |            |              |          |          | Ĺ             |          |       | 100      |              |         |   |   |          |              |   |   |   |               |

| CI                     | aim   |          |          |   |              | Dat          | е<br>е   |  |              |           |
|------------------------|---|----------|----------|---|--------------|--------------|----------|--|--------------|-----------|
|                        | <u></u>                                       | _        | 1        |   |              |              | Γ        |  |              | Γ         |
| Final                  | Original                                      |          |          |   |              |              |          |  |              |           |
|                        | 101   |          |          |   |              |              |          |  |              |           |
|                        | 102   |          | _        | ļ   | L            | _            | _        | <u> </u>   |              | _         |
|                        | 103   |          |          | <u> </u>  | L            | <u> </u>     | L        | _  | L            | ╙         |
|                        | 102<br>103<br>104                             |          | L        | L   | <u> </u>     | L            | L        | <u> </u>   | 辶            | L         |
|                        | 105<br>106                                    |          | _        | ļ   | <u> </u>     | ļ            | L_       | ┖  |              |           |
|                        | 106   | <u> </u> | ļ        |   | <u> </u>     | ļ            | _        | _  |              | L         |
| ļ                      | 107   | L        | ▙        | ļ_  | <u> </u>     | <u> </u>     |          | ┞  | ┞            |           |
|                        | 108<br>109                                    | _        | <u> </u> | ļ   | <u> </u>     | <u> </u>     | <u> </u> | ┡  |              | <u></u>   |
|                        | 109   | <u> </u> | <u> </u> | ļ   | <u> </u>     | L            | $\vdash$ | ┡  | ऻ            | ऻ_        |
|                        | 110   | <u> </u> |          | ├-  | <del> </del> | <u> </u>     | _        | <u> </u>   | <u> </u>     |           |
|                        | 111   | <u> </u> |          |   | <u> </u>     | _            | <u> </u> | ┡  | <u> </u>     |           |
| <u> </u>               | 112   | _        | <u> </u> | <u> </u>  | <del> </del> | <del> </del> | ├        | ├  | <del> </del> | $\vdash$  |
| <b> </b>               | 113   | _        | $\vdash$ | $\vdash$  | -            | ├-           | ┞—       | <del>                                     </del> | 1            | $\vdash$  |
| <b> </b>               | 114   | <u> </u> | $\vdash$ |   | -            |              | $\vdash$ | $\vdash$   | $\vdash$     | $\vdash$  |
|                        | 111<br>112<br>113<br>114<br>115<br>116<br>117 | -        | $\vdash$ | ├   |              |              | ⊢        | $\vdash$   | -            | $\vdash$  |
|                        | 117   |          | H        | -   |              | ├—           | ├—       | ⊢  | -            | H         |
|                        | 118   |          | $\vdash$ | ⊢   |              |              | -        | ⊢  | <del> </del> | H         |
| -                      | 119   |          | ⊢        | ┢   | ┢            |              |          | ├  | <del> </del> | $\vdash$  |
|                        | 120   | -        | $\vdash$ | ⊢   | $\vdash$     | -            |          | -  | ┢            | H         |
|                        | 120<br>121                                    | -        | ┝        | $\vdash$  |              | ⊢            |          | -  | $\vdash$     | $\vdash$  |
| $\vdash$               | 122   |          | -        |   | $\vdash$     | $\vdash$     | -        | -  | ├            |           |
|                        | 123   |          |          | -   | _            |              |          | H  | -            |           |
| $\vdash$               | 122<br>123<br>124                             |          |          | -   | -            | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$     | Н         |
|                        | 125   |          |          | -   | -            | -            |          | <del>                                     </del> | $\vdash$     | H         |
|                        | 126   |          |          |   | -            |              |          | ├─   | _            | Н         |
|                        | 127   |          |          |   |              |              |          |  | _            | _         |
|                        | 125<br>126<br>127<br>128<br>129               | _        |          |   |              |              |          |  | <u> </u>     |           |
|                        | 129   |          | $\vdash$ |   |              |              |          |  |              |           |
|                        | 130   | _        |          |   |              |              |          | İ  |              |           |
|                        | 130<br>131                                    |          |          |   |              |              |          |  |              |           |
|                        | 132   |          |          |   |              |              |          |  |              |           |
|                        | 133   |          |          |   |              |              |          |  |              |           |
|                        | 133<br>134                                    |          |          |   |              |              |          |  |              |           |
|                        | 135   |          |          |   |              |              |          |  |              |           |
|                        | 136<br>137                                    |          |          |   |              |              |          |  |              |           |
|                        | 137   |          |          |   |              |              |          |  |              |           |
|                        | 138   |          |          |   |              |              |          | $\Box$   |              |           |
| $oxed{oxed}$           | 139   |          |          |   |              |              |          |  |              |           |
| L                      | 140   |          |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$   |              | Ш            |          |  | <u> </u>     | Ш         |
|                        | 141   |          | Ш        | $ldsymbol{le}}}}}}$ |              |              |          | Щ  | L            | $\square$ |
| $\sqcup$               | 142   |          | L.,      | L   | Ш            | Ш            |          | Ш  | Ш            |           |
| igsqcut                | 143   |          |          | Ц.  | <u> </u>     | Ш            |          | <u> </u>   | lacksquare   |           |
| $\sqcup \sqcup$        | 144   |          |          | Ш   | L            | Ш            | _        | $\vdash$   | <u> </u>     |           |
| ┝┷                     | 145   | _        |          | _   |              | Ш            |          | Щ  | L            | $\dashv$  |
|                        | 146   |          |          | _   |              |              |          | $\vdash$   |              |           |
| $\vdash \vdash \vdash$ | 147   | _        |          | <u> </u>  |              |              |          | Ш  | Ш            |           |
|                        | 148   | _        |          |   | _            | Щ.           |          |  | Щ            | Щ         |
| <b>  </b>              | 149   | _        | -        |   |              | _            |          | Щ  | Ш            | $\square$ |
| لــــا                 | 150   |          |          |   |              | لـــا        | _        |  | ш            |           |